

FORM PTO-1449 (Modified)  
U.S. Department of Commerce, Patent and Trademark Office

Docket No.

Serial No.

IB-1330-1

Unknown

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant

Shimon Weiss et al.

Filing Date

Group

Herewith

Unknown

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09/349833

07/08/99

## U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
u	AA	4,637,988	1/1987	Hinshaw et al.	436	546	—
	AB	5,262,357	11/16/93	Alivisatos et al.	437	233	11/22/91
	AC	5,319,209	6/1994	Miyakawa et al.	250	459.1	—
	AD	5,505,928	4/9/96	Alivisatos et al.	423	299	4/21/94
	AE	5,537,000	7/16/96	Alivisatos et al.	313	506	4/29/94
u	AF	5,751,018	5/12/98	Alivisatos et al.	257	64	4/29/94
	AG						
	AH						
	AI						
	AJ						
	AK						

## Foreign Patent Documents

## Translation

		Document Number	Date	Country	Class	Subclass	Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	AR	Dabbousi, B.O., et al., "(CdSe)ZnS Core-Shell Quantum Dots: Synthesis and Characterization of a Size Series of Highly Luminescent Nanocrystallites", <u>Journal of Physical Chemistry B</u> , Vol. 101, 1997, pp. 9463-9475.						
u	AS	Peng, Xiaogang, et al., "Epitaxial Growth of Highly Luminescent CdSe/CdS Core/Shell Nanocrystals with Photostability and Electronic Accessibility", <u>Journal of the American Chemical Society</u> , Vol. 119, No. 30, pp. 7019-7029.						
u	AT							

Examiner

C. Q.

Date Considered

8/13/01

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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1641

## U.S. Patent Documents

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
u	AA	3,996,345	12/7/76	Ullman et al.	424	12	6/30/75
	AB	4,777,128	10/11/88	Lippa	435	5	5/27/86
	AC	5,585,640	12/17/96	Huston et al.	250	483.1	1/11/95
	AD	5,674,698	10/7/97	Zarling et al.	435	7.92	3/30/95
u	AE	5,736,330	4/7/98	Fulton	435	6	10/11/95
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## Foreign Patent Documents

## Translation

		Document Number	Date	Country	Class	Subclass	Yes	No
u	AL	WO 99/19515	4/22/99	Chandler et al.	C12Q	1/68		N/A
u	AM	EP 0 990 903	5-APR-00	Europe - EPO	G 01 N	33/58		N/A
u	AN	WO 98/04740	5-FEB-98	International-WIPO	C 12 Q	1/68		N/A
	AO							
	AP							

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

u	AR	Alivisatos, A. P., "Semiconductor Clusters, Nanocrystals, and Quantum Dots," <u>Science</u> 271 (February 16, 1996):933-937.
u	AS	Alivisatos, A. P., "Perspectives on the Physical Chemistry of Semiconductor Nanocrystals," <u>J. Phys. Chem.</u> 100 (1996):13226-13239.
u	AT	Alivisatos, A. Paul, et al., "Organization of 'Nanocrystal Molecules' Using DNA," <u>Nature</u> 382 (August 15, 1996):609-611.

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u	BA	Beverloo, H.B., et al., "Preparation and Microscopic Visualization of Multicolor Luminescent Immunophosphors," Chapter 4 of Beverloo, H.B., "Inorganic Crystals as Luminescent Labels: Their Applications in Immunocytochemistry and Time-Resolved Microscopy," Ph.D. dissertation, University of Leiden (The Netherlands), May 13, 1992, pp. 553-573.
	BB	Bruchez, Marcel P., Jr., "Luminescent Semiconductor Nanocrystals: Intermittent Behavior and Use as Fluorescent Biological Probes," Ph.D. dissertation, University of California, December 17, 1998.
	BC	Bruchez, Marcel, Jr., et al., "Semiconductor Nanocrystals as Fluorescent Probes for Biology," <u>Cytometry Supp.</u> 9 (1998):26.
	BD	Chan, Warren C.W., et al., "Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection," <u>Science</u> 281 (September 25, 1998):2016-2018.
	BE	Coffer, Jeffrey L., et al., "Characterization of Quantum-Confined CdS Nanocrystallites Stabilized by Deoxyribonucleic Acid (DNA)," <u>Nanotechnol.</u> 3 (1992):69-76.
	BF	Cook, Neil D., "Scintillation Proximity Assay: A Versatile High-Throughput Screening Technology," <u>Drug Discovery Today</u> 1 (July, 1996):287-294.
	BG	Correa-Duarte, Miguel A., et al., "Stabilization of CdS Semiconductor Nanoparticles Against Photodegradation by a Silica Coating Procedure," <u>Chem. Phys. Lett.</u> 286 (April 17, 1998):497-501.
	BH	Jacoby, Mitch, "Quantum Dots Meet Biomolecules," <u>C&amp;E News</u> 76 (September 28, 1998):Copied from the Internet as pp. 1-3.
	BI	Kagan, C.R., et al., "Electronic Energy Transfer in CdSe Quantum Dot Solids," <u>Phys. Rev. Lett.</u> 76 (February 26, 1996):1517-1520.
	BJ	Leff, David N., "Color-Coding Quantum Dots Debut with Promising Careers in Clinical Diagnostics Field," <u>Bioworld Today</u> , September 25, 1998, Copied from the Internet as pp. 1-2.
	BK	Liz-Marzán, Luis M., et al., "Synthesis of Nanosized Gold-Silica Core-Shell Particles," <u>Langmuir</u> 12 (1996):4329-4335.
	BL	Mahtab, Rahina, et al., "Preferential Adsorption of a 'Kinked' DNA to a Neutral Curved Surface: Comparisons to and Implications for Nonspecific DNA-Protein Interactions," <u>J. Am. Chem. Soc.</u> 118 (1996):7028-7032.
u	BM	Mahtab, Rahina, et al., "Protein-Sized Quantum Dot Luminescence Can Distinguish Between 'Straight,' 'Bent,' and 'Kinked' Oligonucleotides," <u>J. Am. Chem. Soc.</u> 117 (1995):9099-9100.

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u	CA	Murphy, Catherine J., et al., "Quantum Dots as Inorganic DNA-Binding Proteins," <u>Mat. Res. Soc. Symp. Proc.</u> 452 (1997):597-600.
	CB	Peng, Xiaogang, et al., "Synthesis and Isolation of a Homodimer of Cadmium Selenide Nanocrystals," <u>Angewandte Chemie-International Edition in English</u> , 36 (1997):145-147.
	CC	Service, Robert F., "Semiconductor Beacons Light Up Cell Structures," <u>Science</u> 281 (September 25, 1998):1930-1931.
	CD	Shröck, E., et al., "Multicolor Spectral Karyotyping of Human Chromosomes," <u>Science</u> 273 (July 26, 1996):494-497.
	CE	Zhang, Yu-zhong, et al., "Novel Flow Cytometry Compensation Standards: Internally Stained Fluorescent Microspheres with Matched Emission Spectra and Long-Term Stability," <u>Cytometry</u> 33 (1998):244-248.
	CF	Lacoste, T.D., et al., "Super Resolution Molecular Ruler Using Single Quantum Dots", <u>Biophysical Journal</u> , Vol. 78, January, 2000, page 402A, XP-000933548 Abstract.
u	CG	Bruchez, Marcel, Jr., et al., "Semiconductor Nanocrystals as Fluorescent Biological Labels", <u>Science</u> , Vol. 281, September 25, 1998, pp. 2013-2016.
	CH	
	CI	
	CJ	
	CK	
	CL	
	CM	

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